§ 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments

Please amend the application as follows:

In the Claims:

Please cancel claims 57-101 without prejudice or disclaimer.

Please add the following new claims:

122. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 1 to 22 in SEQ ID NO:2.

123. (New) The nucleic acid molecule of claim 122, further comprising a heterologous polynucleotide.

124. (New) The nucleic acid molecule of claim 123, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

125. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 122 into a vector.

126. (New) A vector comprising the nucleic acid molecule of claim 122.

127. (New) The vector of claim 126, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

128. (New) A host cell comprising the nucleic acid molecule of claim 122.

129. (New) The host cell of claim 128, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

130. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 129 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

131. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 33 to 56 in SEQ ID NO:2.

132. (New) The nucleic acid molecule of claim 131, further comprising a heterologous polynucleotide.

133. (New) The nucleic acid molecule of claim 132, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

134. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 131 into a vector.

135. (New) A vector comprising the nucleic acid molecule of claim 131.

136. (New) The vector of claim 135, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

137. (New) A host cell comprising the nucleic acid molecule of claim 131.

138. (New) The host cell of claim 137 wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

139. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 138 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

140. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 59 to 82 in SEQ ID NO:2.

141. (New) The nucleic acid molecule of claim 140, further comprising a heterologous polynucleotide.

142. (New) The nucleic acid molecule of claim 141, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

143. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 140 into a vector.

144. (New) A vector comprising the nucleic acid molecule of claim 140.

145. (New) The vector of claim 144, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

146. (New) A host cell comprising the nucleic acid molecule of claim 140.

147. (New) The host cell of claim 146, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

148. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 147 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

149. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 95 to 112 in SEQ ID NO:2.

150. (New) The nucleic acid molecule of claim 149, further comprising a heterologous polynucleotide.

151. (New) The nucleic acid molecule of claim 150, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

152. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 149 into a vector.

153. (New) A vector comprising the nucleic acid molecule of claim 149.

154. (New) The vector of claim 153, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

155. (New) A host cell comprising the nucleic acid molecule of claim 149.

156. (New) The host cell of claim 155, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

157. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 156 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

158. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 179 to 190 in SEQ ID NO:2.

159. (New) The nucleic acid molecule of claim 158, further comprising a heterologous polynucleotide.

160. (New) The nucleic acid molecule of claim 159, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

161. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 158 into a vector.

162. (New) A vector comprising the nucleic acid molecule of claim 158.

163. (New) The vector of claim 162, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

164. (New) A host cell comprising the nucleic acid molecule of claim 158.

165. (New) The host cell of claim 164, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

166. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 165 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

167. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 196 to 205 in SEQ ID NO:2.

168. (New) The nucleic acid molecule of claim 167, further comprising a heterologous polynucleotide.

169. (New) The nucleic acid molecule of claim 168, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

170. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 167 into a vector.

171. (New) A vector comprising the nucleic acid molecule of claim 167.

172. (New) The vector of claim 171, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

173. (New) A host cell comprising the nucleic acid molecule of claim 167.

174. (New) The host cell of claim 173, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

175. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 174 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

176. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence at least 95% identical to amino acids 25 to 201 in SEQ ID NO:4.

177. (New) The nucleic acid molecule of claim 176 encoding amino acids 25 to 201 of SEQ ID NO:4.

178. (New) The nucleic acid molecule of claim 177 comprising nucleotides 73 to 603 of SEQ ID NO:3.

179. (New) The nucleic acid molecule of claim 176, further comprising a heterologous polynucleotide.

180. (New) The nucleic acid molecule of claim 179, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

181. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 176 into a vector.

182. (New) A vector comprising the nucleic acid molecule of claim 176.

183. (New) The vector of claim 182, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

184. (New) A host cell comprising the nucleic acid molecule of claim 176.

185. (New) The host cell of claim 184, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

186. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 185 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

187. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence at least 95% identical to amino acids 202 to 224 in SEQ ID NO:4.

188. (New) The nucleic acid molecule of claim 187 encoding amino acids 202 to 224 of SEQ ID NO:4.

189. (New) The nucleic acid molecule of claim 188 comprising nucleotides 604 to 672 of SEQ ID NO:3.

190. (New) The nucleic acid molecule of claim 187, further comprising a heterologous polynucleotide.

191. (New) The nucleic acid molecule of claim 190, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

192. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 187 into a vector.

193. (New) A vector comprising the nucleic acid molecule of claim 187.

194. (New) The vector of claim 193, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

195. (New) A host cell comprising the nucleic acid molecule of claim 187.

196. (New) The host cell of claim 195, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

197. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 196 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

198. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence at least 95% identical to amino acids 225 to 417 in SEQ ID NO:4.

199. (New) The nucleic acid molecule of claim 198 encoding amino acids 225 to 417 of SEQ ID NO:4.

200. (New) The nucleic acid molecule of claim 199 comprising nucleotides 673 to 1251 of SEQ ID NO:3.

201. (New) The nucleic acid molecule of claim 198, further comprising a heterologous polynucleotide.

202. (New) The nucleic acid molecule of claim 201, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

203. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 198 into a vector.

204. (New) A vector comprising the nucleic acid molecule of claim 198.

205. (New) The vector of claim 204, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

206. (New) A host cell comprising the nucleic acid molecule of claim 198.

207. (New) The host cell of claim 206, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

208. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 207 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

209. (New) An isolated nucleic acid molecule comprising a polynucleotide encoding an amino acid sequence at least 95% identical to amino acids 342 to 408 in SEQ ID NO:4.

210. (New) The nucleic acid molecule of claim 209 encoding amino acids 342 to 408 of SEQ ID NO:4.

211. (New) The nucleic acid molecule of claim 210 comprising nucleotides 1024 to 1224 of SEQ ID NO:3.

212. (New) The nucleic acid molecule of claim 209, further comprising a heterologous polynucleotide.

213. (New) The nucleic acid molecule of claim 212, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

214. (New) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 209 into a vector.

215. (New) A vector comprising the nucleic acid molecule of claim 209.

216. (New) The vector of claim 215, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

217. (New) A host cell comprising the nucleic acid molecule of claim 209.

218. (New) The host cell of claim 217, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

219. (New) A method of producing a polypeptide which comprises culturing the host cell of claim 218 under conditions such that said polypeptide is expressed, and recovering said polypeptide.